

B'

SEQUENCE LISTING



<110> Dong, Fang
Lyamichev, Victor
Prudent, James
Fors, Lance
Neri, Bruce
Brow, Mary Ann
Anderson, Todd
Dahlberg, James

RECEIVED

FEB 06 2002

TECH CENTER 1600/2900

<120> Target-Dependent Reactions Using Structure-Bridging Oligonucleotides

<130> FORS-04012

<140> 09/402,618

<141> 2000-07-18

<150> PCT/US98/03194

<151> 1998-05-05

<160> 128

<170> PatentIn version 3.0

<210> 1

<211> 391

<212> DNA

<213> Mycobacterium tuberculosis

<400> 1

agctcgatg gcaccggaac cggttaaggac gcgatcacca gcggcatcga ggtcgtatgg

60

acgaacacccc	cgacgaaatg	ggacaacagt	ttcctcgaga	tcctgtacgg	ctacgagtgg	120
gagctgacga	agagccctgc	tggcgcttgg	caatacaccg	ccaaggacgg	cgccggtgcc	180
ggcaccatcc	cggacccggtt	cggcgggcca	gggcgctccc	cgacgatgct	ggccactgac	240
ctctcgctgc	gggtggatcc	gatctatgag	cggatcacgc	gtcgctggct	ggaacacccc	300
gaggaattgg	ccgacgagtt	cgccaaggcc	tggtacaagc	tgatccaccg	agacatgggt	360
cccgttgcca	gataccttgg	gccggtggtc	c			391

<210> 2

<211> 391

<212> DNA

<213> Mycobacterium tuberculosis

<400> 2	
agctcgatg	gcaccggaac
cggtaaggac	gcgatcacca
ccggcatcga	ggtcgatgg
	60
acgaacacccc	cgacgaaatg
ggacaacagt	ttcctcgaga
tcctgtacgg	ctacgagtgg
	120
gagctgacga	agagccctgc
tggcgcttgg	caatacaccg
ccaaggacgg	cgccggtgcc
	180
ggcaccatcc	cggacccggtt
cggcgggcca	gggcgctccc
cgacgatgct	ggccactgac
	240
ctctcgctgc	gggtggatcc
gatctatgag	cggatcacgc
gtcgctggct	ggaacacccc
	300
gaggaattgg	ccgacgagtt
cgccaaggcc	tggtacaagc
tgatccaccg	agacatgggt
	360
cccgttgcca	gataccttgg
gccgctggtc	c
	391

<210> 3

<211> 391

<212> DNA

<213> Mycobacterium tuberculosis

<400> 3	
agctcgatg	gcaccggaac
cggtaaggac	gcgatcacca
gcggcatcga	ggtcgatgg
	60
acgaacacccc	cgacgaaatg
ggacaacagt	ttcctcgaga
tcctgtacgg	ctacgagtgg
	120
gagctgacga	agagccctgc
tggcgcttgg	caatacaccg
ccaaggacgg	cgccggtgcc
	180
ggcaccatcc	cggacccggtt
cggcgggcca	gggcgctccc
cgacgatgct	ggccactgac
	240
ctctcgctgc	gggtggatcc
gatctatgag	cggatcacgc
gtcgctggct	ggaacacccc
	300
gaggaattgg	ccgacgagtt
cgccaaggcc	tggtacaagc
tgatccaccg	agacatgggt
	360

cccgttgca gataccttgg gccgctggc c

391

<210> 4

<211> 391

<212> DNA

<213> Mycobacterium tuberculosis

<400> 4

agctcgatg gcaccggaac cggttaaggac gcgatcacca ccggcatcga ggtcgatgg 60

acgaacaccc cgaagaaatg ggacaacagt ttctcgaga tctgtacgg ctacgagtg 120

gagctgacga agagccctgc tggcgcttgg caatacacgc ccaaggacgg cgccggtgcc 180

ggcaccatcc cggaccggtt cggcgggcca gggcgctccc cgacgatgct ggccactgac 240

ctctcgctgc ggggtggatcc gatctatgag cggatcacgc gtcgctggct ggaacacccc 300

gaggaattgg ccgacgagtt cgccaaggcc tggataagc tgatccaccg agacatgggt 360

cccgttgca gataccttgg gccgctggc c 391

<210> 5

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 5

agctcgatg gcaccggaac 20

<210> 6

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 6

ttgacctccc acccgacttg

20

<210> 7

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 7

agctcgtatg gcaccggaac c

21

<210> 8

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 8

ggaccagcgg cccaaggtat

20

<210> 9

<211> 22

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 9

ggaccaccgg cccaaggtat ct

22

<210> 10

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 10
tttttgccgc tggatgatcgc g

21

<210> 11

<211> 12

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 11
ggagagccat ag

12

<210> 12

<211> 11

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 12
tggatgatcgc a

11

<210> 13

<211> 11

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 13
ggacgaccgg g

11

<210> 14

<211> 11

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 14
ggagatttgg g

11

<210> 15

<211> 11

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 15
ccgcgagact g

11

<210> 16

<211> 12

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 16
ctagccgagt ag

12

<210> 17

<211> 11

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 17

tggtgggtcg c

11

<210> 18

<211> 11

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 18

ccgcgagacc g

11

<210> 19

<211> 11

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 19

ccgcaagacc g

11

<210> 20

<211> 289

<212> DNA

<213> Hepatitis C virus

<400> 20

gattctgtct tcacgcagaa agcgtctagc catggcggtta gtatgagtgt cgtgcagcct

60

ccaggacccc	ccctcccggg	agagccatag	tggtctgcgg	aaccggtgag	tacaccggaa	120
ttgccaggac	gaccgggtcc	tttcttgat	caaccgctc	aatgcctgga	gatttgggcg	180
tgcccccgca	agactgctag	ccgagtagtg	ttgggtcgcg	aaaggccttg	tggtactgcc	240
tgataggggtg	cttgcgagtg	ccccgggagg	tctcgtagac	cgtgcaatc		289

<210> 21

<211> 286

<212> DNA

<213> Hepatitis C virus

<400> 21						
gattctgtct	tcacgcagaa	agcgtctagc	catggcgta	gtatgagtgt	cgtgcagcct	60
ccaggacccc	ccctcccggg	agagccatag	tggtctgcgg	aaccggtgag	tacaccggaa	120
ttgccaggac	gaccgggtcc	tttcttgat	caaccgctc	aatgcctgga	gatttgggcg	180
tgcccccgcg	agactgctag	ccgagtagtg	ttgggtcgcg	aaaggccttg	tggtactgcc	240
tgataggggtg	cttgcgagtg	ccccgggagg	tctcgtagac	cgtgca		286

<210> 22

<211> 289

<212> DNA

<213> Hepatitis C virus

<400> 22						
gattctgtct	tcacgcagaa	agcgtctagc	catggcgta	gtatgagtgt	cgtacagcct	60
ccaggacccc	ccctcccggg	agagccatag	tggtctgcgg	aaccggtgag	tacaccggaa	120
ttgccgggaa	gactgggtcc	tttcttgat	aaaccactc	tatgcccggc	catttgggcg	180
tgcccccgca	agactgctag	ccgagtagcg	ttgggttcg	aaaggccttg	tggtactgcc	240
tgataggggtg	cttgcgagta	ccccgggagg	tctcgtagac	cgtgcaatc		289

<210> 23

<211> 289

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 23

gattctgtct tcacgcagaa agcgccatag catggcgta gtacgagtgt cgtgcagcct 60
ccaggacccc ccctcccggg agaaccatag tggctcgcg aaccggtgag tacaccggaa 120
tcgctggggg gaccgggtcc tttcttgag caaccgctc aatacccaga aatttgggag 180
tgccccgcg agatcactag ccgagtagtg ttgggtcgcg aaaggccttg tggtagtgcc 240
tgatagggtg cttgcgagtg ccccgaggag tctcgtagac cgtgcaatc 289

<210> 24

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 24

ctcgcaagca ccctatca 18

<210> 25

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 25

gcagaaagcg tctagccatg g 21

<210> 26

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 26
gcagaaagcg tctagccatg gcgttagtat gagggtcgtg cagcctccag gacccccct 60
cccgggagag ccatagtggg ctgcggaacc ggtgagtaca ccggaattgc caggacgacc 120
gggtcctttc ttggatcaac ccgctcaatg cctggagatt tgggcgtgcc cccgcaagac 180
tgctagccga gtagtggtgg gtgcgaaaag gccttggtgt actgcctgat agggtgcttg 240
cgag 244

<210> 27

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 27
gcagaaagcg tctagccatg gcgttagtat gagggtcgtg cagcctccag gtccccccct 60
cccgggagag ccatagtggg ctgcggaacc ggtgagtaca ccggaattgc caggacgacc 120
gggtcctttc ttggatcaac ccgctcaatg cctggagatt tgggcgtgcc cccgcgagac 180
tgctagccga gtagtggtgg gtgcgaaaag gccttggtgt actgcctgat agggtgcttg 240
cgag 244

<210> 28

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 28
gcagaaagcg tctagccatg gcgttagtat gagggtcgtg cagcctccag gccccccct 60
cccgggagag ccatagtggg ctgcggaacc ggtgagtaca ccggaattgc cgggaagact 120
gggtcctttc ttggataaac ccactctatg cccggccatt tgggcgtgcc cccgcaagac 180
tgctagccga gtagcggtgg gttgcgaaaag gccttggtgt actgcctgat agggtgcttg 240
cgag 244

<210> 29

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 29
gcagaaagcg cctagccatg gcgttagtac gagtgtcgtg cagcctccag gacccccct 60
cccgaggagaa ccatagtggc ctgcggaacc ggtgagtaca ccggaatcgc tggggtgacc 120
gggtcctttc ttggagcaac ccgctcaata ccagaaatt tgggcgtgcc ccgcgagat 180
cactagccga gtagtggttg gtcgcgaaag gccttggtgt actgcctgat agggtgcttg 240
cgag 244

<210> 30

<211> 216

<212> DNA

<213> Hepatitis C virus

<400> 30
cagaaagggg ttagccatgg ggtagtatg agtgtcgtac agcctccagg cccccccctc 60
ccgggagagc catagtggc tcgcggaacc gtgagtacac cggaattgcc gggaagactg 120
ggtcctttct tggataaacc cactctatgc ccggccattt gggcgtgcc ccgcaagact 180
gctagccgag tagcgttggg ttgcgaaagg ccttgt 216

<210> 31

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 31
cagaaagggg ttagccatgg cgtagtatg agtgtcgtgc agcctccagg accccccctc 60
ccgggagagc catagtggc tcgcggaacc gtgagtacac cggaattgcc aggacgaccg 120
ggtcctttct tggataaaac ccgctcaatg cctggagatt tgggcgtgcc ccgcaagac 180
tgctagccga gtagtggttg gtcgcgaaag gccttggtgt actgcctgat agggtgcttg 240
caag 244

<210> 32

<211> 239

<212> DNA

<213> Hepatitis C virus

<400> 32

```
gcagaaaggt ttagccatgg gttagtatga gtgtcgtgca gcctccagga cccccctcc 60
cgggagagcc atagtgggtc gcggaaccgg tgagtacacc ggaattgcca ggacgaccgg 120
gtcctttctt ggattaaccc gctcaatgcc tggagatttg ggcgtgcccc cgcaagactg 180
ctagccgagt agtgttgggt cgcgaaaggc cttgtgttac tgctgatag ggtgcttgc 239
```

<210> 33

<211> 240

<212> DNA

<213> Hepatitis C virus

<400> 33

```
gcagaaaggt ttagccatgg ggtagtatg agtgtcgtac agcctccagg accccccctc 60
ccgggagagc catagtgggtc tcggaaccg gtgagtacac cggaattgcc aggacgaccg 120
ggtcctttct tggataaac cgtcaatgc ctggagattt gggcgtgccc ccgcaagact 180
gctagccgag tagtgttggg tcgcgaaagg cttgttggtg ctgcctgata ggtgcttgc 240
```

<210> 34

<211> 240

<212> DNA

<213> Hepatitis C virus

<400> 34

```
gcagaaaggg ttagccatg gcgttagtat gagtgtcgtg cagcctccag gccccccct 60
ccgggagag ccatagtgggt ctgcggaacc ggtgagtaca ccggaattac cggaaagact 120
gggtcctttc ttggataaac cactctatg tccggtcatt tgggcgtgcc cccgcaagac 180
tgctagccga gtagcgttgg gttgcaaagg cttgttggtg ctgcctgata ggtgcttgc 240
```

<210> 35

<211> 240

<212> DNA

<213> Hepatitis C virus

<400> 35
cagaaagggt ttagccatgg ggtagtacg agtgtcgtgc agcctccagg cccccccctc 60
ccgggagagc catagtggtc tgcggaaccg gtgagtacac cggaatcgct ggggtgaccg 120
ggtcctttct tggagcaacc cgctcaatac ccagaaattt ggcgtgccc ccgcgagatc 180
actagccgag tagtggtggg tcgcgaaagg cttgtggta ctgcctgata gggtgcttgc 240

<210> 36

<211> 239

<212> DNA

<213> Hepatitis C virus

<400> 36
agaaagcgtt tagccatggc gttagtatga gtgttggtgca gcctccagga cccccctcc 60
cgggagagcc atagtggctc gcggaaccgg tgagtacacc ggaattgcca ggacgaccgg 120
gtcctttctt ggatcaaccc gctcaatgcc tggagatttg ggcgtgcccc cgcaagactg 180
ctagccgagt agtggtgggt cgcgaaaggc cttgtggtac tgcctgatag ggtgcttgc 239

<210> 37

<211> 232

<212> DNA

<213> Hepatitis C virus

<400> 37
gtttagccat ggcgttagta tgagtgtcgt gcagcctcca ggaccccccc tcccgggaga 60
gccatagtgg tctgcggaac cggtgagtac accggaattg ccaggacgac cgggtccttt 120
cttgatcaa cccgtcaat gcctggagat ttgggcgtgc ccccgcgaga ccgctagccg 180
agtagtggtg ggtcgcgaaa ggccttggtg tactgcctga tagggtgctt gc 232

<210> 38

<211> 240

<212> DNA

<213> Hepatitis C virus

<400> 38
 gcagaaagcg tttagccatg gcgttagtac gagggtcgtg cagcctccag gacccccct 60
 cccgggagag ccatagtggg ctgcggaacc ggtgagtaca ccggaatcgc tggggtgacc 120
 gggtcctttc ttggaacaac ccgctcaata ccagaaatt tgggcgtgcc cccgcgagat 180
 cactagccga gtagtggttg gtcgcgaaag gccttggtg actgcctgat aggggtgcttg 240

<210> 39
 <211> 44
 <212> DNA
 <213> Artificial

<220>

<223> Synthetic

<400> 39
 tgctctctgg tcgctgtctg aaagacagcg tggctctctg taat 44

<210> 40
 <211> 44
 <212> DNA
 <213> Artificial

<220>

<223> Synthetic

<400> 40
 tgctctctgg tcgctgtctg aaagactccg tggctctctg taat 44

<210> 41
 <211> 44
 <212> DNA
 <213> Artificial

<220>

<223> Synthetic

<400> 41

tgctctctgg tcgctgtctg aattttttt tggctctctg taat

44

<210> 42

<211> 14

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 42

agaccattac caga

14

<210> 43

<211> 16

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 43

gagaccatta ccagag

16

<210> 44

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 44

agagaccatt accagaga

18

<210> 45

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 45
agagaccatt acaagcga

18

<210> 46

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 46
agcgaacatt accagaga

18

<210> 47

<211> 16

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 47
agagaccaac cagaga

16

<210> 48

<211> 9

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 48
agagaccat

9

<210> 49

<211> 9

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 49
taccagaga

9

<210> 50

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 50
accagagagc

10

<210> 51

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 51
tcagacagcg

10

<210> 52

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 52
agtggctctgc ggaaccgg

18

<210> 53

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 53
agtgtcgttt ggaaccgg

18

<210> 54

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 54
agtgtcgtaa ggaaccgg

18

<210> 55

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 55
agtgtcgtca ggaaccgg

18

<210> 56

<211> 16

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 56
agtgtcgtgg aaccgg

16

<210> 57

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 57
agtgtcgttt ggatccgg

18

<210> 58

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 58
agtgacgttt ggaaccgg

18

<210> 59

<211> 8

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 59
ggaaccgg

8

<210> 60

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 60
ttttgtgagt acaccggaat

20

<210> 61

<211> 14

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 61
ttttgtgagt acac

14

<210> 62

<211> 15

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 62
tgagtacacc ggaat

15

<210> 63

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 63
attccggtgt actcaccggt tccaaacgac act

33

<210> 64

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 64
cagcctcccc ttcttgga

18

<210> 65

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 65
agtgtcggtt ggaattaatt

20

<210> 66
<211> 16
<212> DNA
<213> Artificial

<220>
<223> Synthetic
<400> 66
gcgaaaggcc ttgtgg

16

<210> 67
<211> 16
<212> DNA
<213> Artificial

<220>
<223> Synthetic
<400> 67
acagcctcca ggaccc

16

<210> 68
<211> 16
<212> DNA
<213> Artificial

<220>
<223> Synthetic
<400> 68
gcagcctcca ggaccc

16

<210> 69
<211> 193
<212> DNA
<213> Mycobacterium tuberculosis

<400> 69
 cgtggaggcg atcacaccgc agacgttgat caacatccgg ccggtggteg ccgcgatcaa 60
 ggagttcttc ggcaccagcc agctgagcca attcatggac cagaacaacc cgctgtcggg 120
 gttgaccac aagcgccgac tgtcggcgct ggggcccggc ggtctgtcac gtgagcgtgc 180
 cgggctggag gtc 193

<210> 70

<211> 26

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 70
 cgtggaggcg atcacaccgc agacgt 26

<210> 71

<211> 25

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 71
 gacctccagc ccggcacgct cacgt 25

<210> 72

<211> 128

<212> DNA

<213> Mycobacterium tuberculosis

<400> 72
 cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
 cccgctgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccg gcggtctgtc 120

acgtgagc

128

<210> 73

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 73

cgccgcgatc aaggagttct

20

<210> 74

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 74

gctcacgtga cagaccgccg

20

<210> 75

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 75

tgacagaccg ccggggccc

18

<210> 76

<211> 121

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 76
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
cccgtgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccg gcggtctgtc 120
a 121

<210> 77

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 77
agacagaccg ccggggccc 18

<210> 78

<211> 121

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 78
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
cccgtgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccg gcggtctgtc 120
t 121

<210> 79

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 79

acagaccgcc gggcccca

18

<210> 80

<211> 119

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 80

cgccgcgata aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa

60

cccgtgtctg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcggtctgt

119

<210> 81

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 81

ccagaccgcc gggcccca

18

<210> 82

<211> 119

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 82

cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgtgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccg gcggtctgg 119

<210> 83

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 83

cagaccgccc ggccccag 18

<210> 84

<211> 118

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 84

cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgtgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccg gcggtctg 118

<210> 85

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 85

gagaccgccc ggccccag 18

<210> 86
<211> 118
<212> DNA
<213> Artificial

<220>

<223> Synthetic

<400> 86
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
cccgtgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccg gcggtctc 118

<210> 87
<211> 20
<212> DNA
<213> Artificial

<220>

<223> Synthetic

<400> 87
ccgccgggcc ccagcgccga 20

<210> 88
<211> 114
<212> DNA
<213> Artificial

<220>

<223> Synthetic

<400> 88
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
cccgtgtcg gggttgacct acaagcgccg actgtcggcg ctggggcccg gcgg 114

<210> 89
<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 89

gcgcgcgggcc ccagcgccga

20

<210> 90

<211> 114

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 90

cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa

60

cccgtgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcgc

114

<210> 91

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 91

cggccggggcc ccagcgccga

20

<210> 92

<211> 114

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 92

cgccgcgatac aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgcctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gccg 114

<210> 93

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 93

cgggccccag cgccgaca 18

<210> 94

<211> 110

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 94

cgccgcgatac aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgcctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg 110

<210> 95

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 95
agggccccag cgccgaca

18

<210> 96

<211> 110

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 96
cgccgcgac aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgtgtcg gggttgaccc acaagcgccg actgtcggcg ctggggccct 110

<210> 97

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 97
ccccagcgcc gacagtcg 18

<210> 98

<211> 106

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 98
cgccgcgac aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgtgtcg gggttgaccc acaagcgccg actgtcggcg ctgggg 106

<210> 99
<211> 18
<212> DNA
<213> Artificial

<220>

<223> Synthetic

<400> 99
tcccagcgcc gacagtcg

18

<210> 100
<211> 106
<212> DNA
<213> Artificial

<220>

<223> Synthetic

<400> 100
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60
cccgtgtcg gggttgaccc acaagcgccg actgtcggcg ctggga 106

<210> 101
<211> 20
<212> DNA
<213> Artificial

<220>

<223> Synthetic

<400> 101
cgcttggtggg tcaaccccgga

20

<210> 102
<211> 87
<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 102

cgccgcgatac aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgtgtcg gggttgaccc acaagcg 87

<210> 103

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 103

agcttgagg tcaacccga 20

<210> 104

<211> 87

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 104

cgccgcgatac aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgtgtcg gggttgaccc acaagct 87

<210> 105

<211> 16

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 105
gtgacagagt tgttct

16

<210> 106

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 106
gtgacagatt gttgttct

18

<210> 107

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 107
gtgacagagc gttgttct

18

<210> 108

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 108
gtgacagaaa gttgttct

18

<210> 109

<211> 16

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (8)..(8)

<223> The A at this position is linked to spacers with abasic sugar labels

<400> 109
gtgacagagt tgttct

16

<210> 110

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 110
tcacgtgagc gtccatga

18

<210> 111

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 111

cagaccgcgc acagcggg

18

<210> 112

<211> 17

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 112

gctcacgata ccccgac

17

<210> 113

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 113

tgctcacgat accccgac

18

<210> 114

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 114

cgccggggcgc tcaacccc

18

<210> 115

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 115
acagtcgggc ggttggtc

18

<210> 116

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 116
cgggccccta tgtgggtc

18

<210> 117

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 117
ctcacgtgta tctggtcc

18

<210> 118

<211> 16

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 118
tgacagacgt tgttct

16

<210> 119

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 119
ccccagcggc gttgttct

18

<210> 120

<211> 16

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 120
gtgtcgtttg gaaccg

16

<210> 121

<211> 16

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 121
tgggcgttgc ttgtgg

16

<210> 122

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 122

ttgggcgttg cttgtggt

18

<210> 123

<211> 13

<212> DNA

<213> Artificial

<220>

<223> Synthetic

<400> 123

tccttgatcg cgg

13

<210> 124

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 124

ctcgcaagca ccctatcagg cagtaccaca aggcctttcg cgacccaaca ctactcggct

60

agcagtcttg cgggggcacg cccaaatctc caggcattga gcgggttgat ccaagaaagg

120

acccggtcgt cctggcaatt ccggtgtact caccggttcc gcagaccact atggctctcc

180

cgggaggggg ggtcctggag gctgcacgac actcatacta acgccatggc tagacgcttt

240

ctgc

244

<210> 125

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 125
 ctcgcaagca ccctatcagg cagtaccaca aggcctttcg cgacccaaca ctactcggct 60
 agcagtctcg cgggggcacg cccaaatctc caggcattga gcgggttgat ccaagaaagg 120
 acccggtcgt cctggcaatt ccggtgtact caccggttcc gcagaccact atggctctcc 180
 cgggaggggg ggacctggag gctgcacgac actcatacta acgccatggc tagacgcttt 240
 ctgc 244

<210> 126

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 126
 ctcgcaagca ccctatcagg cagtaccaca aggcctttcg caacccaacg ctactcggct 60
 agcagtcttg cgggggcacg cccaaatggc cgggcataga gtgggtttat ccaagaaagg 120
 acccagtctt cccggcaatt ccggtgtact caccggttcc gcagaccact atggctctcc 180
 cgggaggggg gggcctggag gctgtacgac actcatacta acgccatggc tagacgcttt 240
 ctgc 244

<210> 127

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 127
 ctcgcaagca ccctatcagg cagtaccaca aggcctttcg cgacccaaca ctactcggct 60
 agtgatctcg cgggggcacg cccaaatttc tgggtattga gcgggttgct ccaagaaagg 120
 acccggtcac cccagegatt ccggtgtact caccggttcc gcagaccact atggttctcc 180
 cgggaggggg ggtcctggag gctgcacgac actcgtacta acgccatggc taggcgcttt 240
 ctgc 244

<210> 128

<211> 244

<212> DNA

<213> Hepatitis C virus

<400> 128

cucgcaagca	cccuaucagg	caguaccaca	aggccuuucg	cgacccaaca	cuacucggcu	60
agcagucuug	cgggggcacg	ccaaaucuc	caggcauuga	gcggguugau	ccaagaaagg	120
acccggucgu	ccuggcaauu	ccgguguacu	caccgguucc	gcagaccacu	auggcucucc	180
cgggaggggg	gguccuggag	gcugcacgac	acucauacua	acgccauggc	uagacgcuuu	240
cugc						244